

**REMARKS**

***Informal Matters***

The Examiner is kindly requested to return the initialed PTO/SB/08 filed with the Information Disclosure Statement filed on September 2, 2003.

Also, Applicant respectfully requests approval of the drawings filed with the application on June 30, 2000.

***Formal Matters***

Claims 1-16 are all the claims pending in the application. Claims 1-16 presently stand rejected. Specifically, claim 1 is rejected under 35 U.S.C. § 112, second paragraph, claims 1-7 and 9-15 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Tsumura (USP 5,550,506) ("506") in view of Tsumura (USP 5,511,097) ("097") and claims 8 and 16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over '506 in view of '097 and in further view of Saito (USP 5,260,975). For the reasons set forth below, Applicant respectfully traverses the rejections and requests favorable disposition of the application. Additionally, Applicant has only amended claims 1-16 to conform with typical English language grammar and idiomatic usage. The prior art rejections are completely addressed in the arguments below.

***Argument***

In regard to the §112 rejection of claim 1, Applicant has amended claim 1 to correct the grammar of the offending claim language. 35 U.S.C. § 112 is believed to be fully satisfied. Accordingly, Applicant respectfully requests withdrawal of the §112 rejection of claim 1.

In regard to the prior art rejection of claims 1-16, only claims 1 and 9 are independent claims. Accordingly, the discussion below focuses on claims 1 and 9. The arguments presented apply with equal force to dependent claims 2-8 and 10-16.

The invention disclosed in the present specification is directed to a demodulator for a mobile phone. In particular, according to at least one embodiment of the invention the demodulation error rate can be improved while simultaneously reducing current consumption. The error rate to which the improvement is directed is typically caused by noise and external feedback loop operation. Further, according to the invention electrical current consumption is reduced by slowing the increase in processing time when the demodulator operates simultaneously with an external correction circuit.

In accordance with the invention disclosed, claim 1 recites, *inter alia*;

a weighting means for applying weighting to correction values after detection of an external loop; and  
a deciding means for deciding an order of priority for a plurality of correction values,

Claim 9 recites similar method steps.

As described, for example, at page 11, lines 1-14 and in reference to Fig. 1, when a correction scheme such as Automatic Gain Control (AGC) is used on data after detection, the correction values are inputted to adders 6, 7, 8, 23, 24 and 33. Further, when a plurality of correction values are used for data after detection, "a weighting circuit 37 applies a weighting for the correction values and decides the order of priority for the plural correction values." (Page 11, lines 15-17).

The Examiner asserts that Tsumura '506 discloses the claimed weighting means and deciding means. Applicant respectfully disagrees and submits that contrary to the Examiner, reference items 26 and 26 in Fig. 3 of Tsumura '506 do not, and can not, apply weighting for correction values after detection of an external loop, such as AGC. As illustrated in Fig. 3, no external loop is shown or even implied. Accordingly, no weighting for correction values after a detection can be applied and, thus no weighting means like the one recited in claim 1 is disclosed.

Tsumura '097 and Saito fail to compensate for the deficiency mentioned above with respect to Tsumura '506. Therefore, for at least the reason discussed above, the proposed combination of the '506 and '097 references does not teach or otherwise suggest all the recited features of either claim 1 or claim 9 of the present application. The rejection of independent claims 1 and 9 should, accordingly, be withdrawn. Dependent claims 2-8 and 10-16 are patentable over the proposed combination of references at least by virtue of their dependency from claim 1 and claim 9, respectively.

### ***Conclusion***

In view of the foregoing remarks, the application is believed to be in form for immediate allowance with claims 1-16, and such action is hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, he is kindly requested to **contact the undersigned** at the telephone number listed below.

AMENDMENT UNDER 37 C.F.R. § 1.111  
U.S. Appln. No. 09/609,532

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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